October Test



Choose the correct answer.

(5 marks)

- a. The greatest non-positive integer is
 - A. 1
- B. -1
- **C**. 0

D. 1.1

- **b.** 820 ÷ 24 = 34 R
 - A. 0
- **B.** 2

C. 4

- D. 6
- c. Which of the following are relatively prime numbers?
 - A. 2 and 10
- B. 9 and 25
- C. 4 and 6
- D. 15 and 6
- **d.** The rational number = 2.5 in the form of $\frac{a}{b}$ is
 - A. $\frac{25}{10}$
- **B.** $-5\frac{2}{10}$
- C. $-\frac{25}{10}$
- D. $-2\frac{1}{5}$

- e. $\left| -3\frac{1}{4} \right| -4\frac{1}{3}$
 - A. <
- B. >

C. =



- 2. Complete the following.
 - a. In the opposite Venn diagram the L.C.M is _____
 - b. The distance between 4 and its opposite on the number line equals units.

 - d. $2\frac{1}{5} 1\frac{1}{6} = -$
 - e. 42 + 35 = 7 × ------+ × 5
- 3. a. Arrange the following numbers from the least to the greatest.

(2 marks)

- $-\frac{1}{2}$, $2\frac{1}{2}$, $\frac{3}{4}$, 0, $-\frac{7}{12}$
- b. A merchant paid 2,000 L.E. to buy 16 boxes of mango. Find the price of each box and if each box contains 5 kg of mango , find the price of each kg. (3 marks)

October Test 2



Choose the correct answer.

(5 marks)

D.
$$x + 4$$

$$A. - 2.51$$

$$C. - 2.41$$

$$D. - 2.37$$

e.
$$\frac{3}{4} + \frac{2}{4} + \frac{1}{4} + \frac{1}{4} = -$$

A.
$$\frac{7}{16}$$

B.
$$\frac{7}{8}$$

C.
$$1\frac{3}{4}$$

D.
$$\frac{17}{4}$$

Complete the following.

(5 marks)

e. The opposite of
$$-2\frac{1}{3}$$
 is _____

b. Find three rational numbers lies between :
$$\frac{3}{4}$$
 and $\frac{4}{5}$

(3 marks)

Model (1)

First Choose the correct answer:

- 1 If $12 \times 34 = 408$, then $408 \div 12 = ...$ ($12 \odot 34 \odot 408 \odot 36$)

(30 0 53 0 18 0 25)

3 (2 X 8) + (2 X 3) =

(2 X 8 X 3 00 2 + (8 X 3) 00 2 X (8 + 3) 00 2 X 8 X 2 X 3)

4 2 <

$$(\frac{3}{2} \circ - \frac{3}{2} \circ 1 - \frac{2}{3} \circ \frac{2}{3})$$

5 The number of terms of the algebraic expression "2.5 \times + 2 \times y – 4 is"

.....

6 The number "m" plus 18 and the result divided by 3 = _____.

$$(m \div 18 + 3)$$
 $\frac{m}{3 + 18}$ $\frac{m}{3 \div (m + 18)}$ $\frac{m}{3 \div (m + 18)}$

7 The largest non-positive integer is ______. $(-1 \odot 1 \odot -100 \odot 0)$

Second Complete the following:

4 The sum of three times a and 5 = ______. (algebraic expression)

1 find:

a

2 A fruit merchant bought 302 kg of bananas, and then bought another 130 kg. He wants to distribute the sum of what he bought among 12 boxes equally. How many kilograms are in each box?

3 Compare using (<, = or >):

- **a** 0.9
- I 0.9 I

- **6** 3.8
- 1.8

- $\mathbf{G} 0.9$
- 0

- 3.5

Model (2)

First Choose the correct answer:

1 If $574 = 41 \times 14$, then $580 \div 41 = 14$, and the remainder is ______.

(14 @ 41 @ 6 @ 16)

2 The greatest common factor of 4 and 15 is

(0 or 1 or 4 or 5)

3 6 X (7 + 5) =

 $((6 X 7) + (6 X 5) \odot 6 X 7 + 5 \odot 6 X 7 X 5 \odot (6 + 7) X (6 + 5))$

4 The number _____ is neither a positive nor a negative number.

 $(0 \odot 1 \odot -1 \odot 10)$

5 The integer that expresses (the depth of a well of 5 meters)

is

(-5 **o** 5 **o** -10 **o** 10)

 $\left(\frac{7}{4}\right)$

 $(\frac{7}{4} \circ - 1 \frac{3}{4} \circ \frac{8}{4} \circ - \frac{8}{4})$

7 The numbers 6 and _____ are relative prime numbers.

(4 @ 15 @ 35 @ 20)

Second Complete the following:

1is the smallest odd prime number.

3 All natural numbers are also _____ and _____.

4 I 0.03 I =

1 A hospital staffed by 35 doctors and 49 nurses, find the greatest number of equal groups that can be made of doctors and nurses together. How many doctors are in each group? How many nurses are in each group?

² Find:

a
$$7\frac{5}{6} + 1\frac{1}{12} = \dots$$

b
$$8\frac{6}{7} - 2\frac{1}{5} =$$

3 Compare using (< , = or >):

C
$$4\frac{3}{4}$$
 $|2\frac{2}{3}|$

Model (3)

First Choose the correct answer:

- 2 A number that if it divided by 9, the quotient will be 15 and the remainder is 3, is ______. (135 or 138 or 132 or 27)
- 3 All negative numbers are ____zero.

(greater than or less than or equal to)

- 4 The algebraic term " $\frac{1}{5}$ x " consists of ______ factor(s).(1 \odot 2 \odot 3 \odot 4)
- The number of terms that make up the algebraic expression

 "8 + 3 x v" is ______. (2 @ 3 @ 4 @ 5)

$$\boxed{7} \ 1\frac{3}{4} + 2\frac{1}{2} = \dots \qquad (4\frac{1}{4} \ \vec{o} \ 3\frac{1}{4} \ \vec{o} \ 3\frac{4}{6} \ \vec{o} \ 4)$$

- 1 The smallest two-digit prime number is ______.
- $\frac{2}{7} + \dots = 12 \frac{1}{5}$
- The additive inverse of -5.9 is _____.
- **4** | 7.04 | =

1 Factorize each number into its prime factors using the factor tree:

a 45

6 32

G 60

2 Find:

a
$$4\frac{1}{4} + 2\frac{7}{12} = \dots$$

b
$$7\frac{4}{7} - 1\frac{1}{2} = \dots$$

3 Arrange in an ascending order:

$$\frac{3}{4}$$
, $-\frac{5}{8}$, $-\frac{1}{2}$, $-\frac{3}{4}$, $\frac{1}{4}$

The order:

First Choose the correct answer:

- 1 The rational number represented on the corresponding number line is $(-0.2 \odot 0.5 \odot 2.5 \odot -2.3)$
- is a factor of all numbers. (0 or 1 or 2 or 3)
- The prime factors of 24 are _____.

4 All integers are also numbers.

(counting or natural or even or rational)

5 In the algebraic term "- 3 x y" the coefficient is ______.

7 The algebraic expression representing "half the difference between the number "a" and 7" is ______.

$$(\frac{1}{2}a - 7 \odot \frac{1}{2}a + 7 \odot \frac{1}{2}(a - 7) \odot \frac{1}{2}(a + 7))$$

- 1 A number whose prime factors are 3, 3, and 7 is ______.
- 2 8 X (..... +) = (..... X 9) + (..... X 2)
- $\frac{2}{7} + \dots = \frac{5}{14}$
- **4** − 5, − 4, −3, −2,, ,, (in the same pattern)

1 A box of oranges contains 2 $\frac{3}{5}$ kg. Another box of

apples contains $4\frac{1}{8}$ kg. How many kg do the two boxes contain?

Compare using (< , = or >):

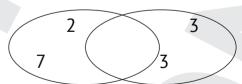
(a)
$$\left| -\frac{8}{3} \right|$$
 $-\left| 2\frac{2}{3} \right|$

b
$$-3\frac{4}{5}$$
 $|-\frac{3}{2}|$

$$C \left| -\frac{2}{9} \right| - \left| \frac{2}{9} \right|$$

d 2.4
$$\frac{2}{4}$$

- 3 Complete using the opposite figure:
- a The two numbers are _____ and ____.



- The LCM is

(Yes or No)

Model (5)

First Choose the correct answer:

- 1 An integer between 2 and -2 is _____.
- $(-1 \odot -3 \odot 3 \odot -4)$
- 2 In the algebraic term "- 5 xy", the coefficient is ______.

$$(y \odot x \odot 5 \odot -5)$$

If Basim is "x" years old now, then how old will he be after 5 years?

.....

$$(x - 5 \odot x + 5 \odot 5 \div x \odot 5 x)$$

4 If the price of one book is 15 pounds, how much is the price of "b"

number of books?

5 The least common multiple of any two prime numbers is _____.

(0 or 1 or their sum or their product)

- 6 0, 6, 8, 2 are _____ numbers.
- (even or odd or prime or etc.)

7 -9 >

- 1 The number that if divided by 57, the quotient will be 34, and the remainder is 12, is ______.
- The smallest three-digit prime number is ______.
- 3 X (4 + 6) = (9 X) + (9 X)

1 Carina has 24 apples and 36 bananas. She wants to put all the fruit into plastic containers, each with the same number of pieces of fruit. What is the greatest number of pieces of fruit can she put in each plastic container?

2 Find:

a
$$9\frac{2}{3} + 5\frac{1}{9} =$$

b
$$80\frac{2}{5} - 25\frac{3}{4} =$$

- 3 Shaimaa bought a pen for $9\frac{1}{2}$ pounds, a ruler for $5\frac{1}{4}$ pounds, and a notebook for 4 pounds. How much did Shaimaa pay?
- 4 Arrange in an ascending order:

2 ,
$$-5.5$$
 , 7 , 3.7 , -1 , $2\frac{1}{3}$, $3\frac{4}{5}$

First Choose the correct answer:

(counting number or natural number or negative integer or odd number)

 $(2,4 \odot 5,3 \odot a,b \odot 5,3,2,4)$

 $\boxed{3}$ The number comes just before _____ is -1. (-2 \bigcirc 2 \bigcirc 0 \bigcirc 1)

4 The absolute value of "zero" is ______. (10 or 0 or -1 or 1)

5 A square of side length "s" cm has a perimeter of _____ cm.

 $(s + 4 \odot s \times 4 \odot \frac{s}{4} \odot 4 s)$

 $(2x + 7 \odot 2(x + 7) \odot 27 + x \odot 2(2x + 7))$

3 and 2 together are prime factors of the number

(30 👓 53 🐨 27 🐨 25)

Second Complete the following:

1 If $1,140 \div 13 = 87$ and the remainder is 9, then $13 \times 87 = \dots$

The least common multiple of the two relatively prime number is ______.

3 63 + 81=x (7+9)

4 The number - 2.5 in the form $\frac{a}{b}$ is ______

(in its simplest form)

- 1 Ahmed took 65 $\frac{1}{5}$ LE from his father and 34 $\frac{1}{5}$ LE from his mother. Find out how much he took from both.
- 2 Arrange in an ascending order:

The order:

3 Ali needs to ship 14 rock CDs and 12 classical CDs. He wants to arrange the CDs in packs so each pack should have the same number of each kind. What is the greatest number of packs?

4 Using the Venn diagram: find the GCF and LCM for 12 and 9.

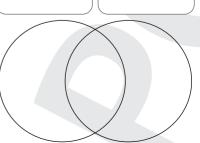
a 12 = _____

b 9 = _____

© The **GCF** = _____.

d The **LCM** =





First Choose the correct answer:

1 If the prime factors of a number are 2 x 3 x 3, then the number is _____.

(18 @ 9 @ 11 @ 233)

2 The greatest common factor of 6 and 25 is ______.

(0 0 1 0 4 0 5)

3 5 is not a / an _____.

(counting number on natural number on integer on even number)

4 If we subtract 5 from the number "x", the result is _____.

 $(x + 5 \odot x - 5 \odot 5 - x \odot 5 x)$

5 Which of the following operations expresses the mathematical expression "double a number plus 4"?

$$(+,-\text{ or } X,-\text{ or } X,+\text{ or } X,\div)$$

$$(25 - h \odot h - 25 \odot 25 + h \odot 25h)$$

7, 5, 3, and 2 are numbers.

(even or odd or prime or otherwise))

- $\frac{2}{3} \frac{4}{7} + \dots = 7 \frac{2}{3}$
- 4 The smallest positive integer is

- 1 Hussam is training for n hours daily for 6 days of the week, and on Friday he is training for 3 hours. How many hours does Hossam spend training in one week?
- 2 I want to plant 45 sunflower plants and 81 corn plants in my garden.

 If I put the same number of plants in each row, what is the greatest number of rows I can make?

- Find:
- a $3\frac{3}{10} + 8\frac{1}{4} =$
- **b** $15\frac{2}{3} 8\frac{5}{6} = \dots$
- 4 Arrange in an ascending order:

7.3 , -2.7 , | 6.7 | , -4.8 , | -1.5 |

The order: ,, ,, ,, ,

First Choose the correct answer:

1 The greatest common factor of a number whose prime factors are 2 and 5 and a number whose factors are 3 and 7 is ______.

(0 or 10 or 1 or 210)

2 -3 is located to the right of _____ on the number line.

 $(-4 \odot 4 \odot -2 \odot 2)$

- 3 The number just after -9 is ______. $(-10 \odot -8 \odot 10 \odot 8)$
- 4 The additive inverse of a number $\frac{3}{5}$ $-\frac{5}{3}$ (> $\frac{1}{3}$ = $\frac{5}{3}$
- 5 The number of terms of the expression "5 \times + 3 \times + 2" is _____.

(2 @ 3 @ 5 @ 6)

6 If "b" is an integer, then the integer immediately next to it is ______.

 $(b + 1 \odot b - 1 \odot 2 b \odot \frac{b}{2})$

Kareem is "x" years old now, how old was he 3 years ago?

 $(x - 3 \odot x + 3 \odot 3 \div x \odot 3x)$

- 1 Two numbers are relatively prime numbers if their greatest common factor is ______.
- 2 8 X (9 + 2) = (.....X) + (.....X)
- $3\frac{1}{4} + \dots = 5\frac{3}{16}$
- $4 \ 10 \frac{3}{10} \dots = 4 \frac{1}{2}$

1 The number of rooms in one of the hotels reached 372 room
These rooms are divided evenly over 12 floors. How many
rooms are there in each floor?

2 Abdulrahman needs to ship 16 comedy DVDs and 24 animated DVDs.

He will pack them in backs with the same number of each kind of DVDs. What is the greatest number of backs DVDs Abdulrahman can buy?

= GCF =

3 Using the Venn diagram: find the GCF and LCM For 14 and 21.

a 14 = _____.

b 21 =





- C The GCF =
- **1** The **LCM** = _____.
- 4 Wafaa has 300 pounds. She bought 9 pens of the same type.

 The price of one pen is "p" pounds. What is the amount left with Wafaa after buying the pens?

First Choose the correct answer:

1 A/An is a number with only two factors.

(even number or prime number or odd number or composite number)

- 2 The additive inverse of ______ is itself. (1 or 2 or 3 or 0)
- The common factor of the two prime numbers is _____.

(their sum of their product of 1 of 0)

- 4 The opposite of 5 > ($-4 \odot 4 \odot -6 \odot 6$)
- 5 All positive numbers ____ zero. (greater than or less than or equal to)
- 6 The algebraic term is "5ab" from _____ factors. (1 or 2 or 3 or 4)
- 7 The algebric expression representing the difference between 3 times the number "y" and 2 is ______.

$$(3-2y \odot 2 (y-3) \odot 3y-2 \odot 2y-3)$$

- $24\frac{1}{4}$ = $2\frac{7}{12}$
- 3 Salma dives 10 meters below the sea level (______) (an integer)

1 A rectangular garden with dimensions of 124 meters by 65 meters, divided into rectangular planting basins, each of which is 62 square meters. How many basins are in the garden?

- 2 Compare using (< , = or >):
- **a** 1– 2.51

b 5.07 I – 5.071 I

 $|-4\frac{2}{5}|$ $|-\frac{1}{2}|$

- **a** $-|5\frac{2}{3}|$ $|-1\frac{1}{2}|$
- 3 A road of 15 km in length, paved in three stages, $6\frac{2}{5}$ km in the first stage. $4\frac{1}{2}$ km In the second stage, how long is the distance paved in the third stage?

4 Arrange in an ascending order:

$$0.75$$
 , $-\frac{1}{8}$, $-\frac{1}{2}$, $-\frac{1}{4}$, 10.25 l

Model (10)

First Choose the correct answer:

- $2 1 4 = \dots$ $(4 \odot -4 \odot 0.4 \odot \frac{1}{4})$
- 3 A number whose prime factors are 2, 3, 7 is

(237 @ 42 @ 12 @ 35)

- 4 The additive inverse of -8 is ______. (18 \odot 8 \odot 0.8 \odot $\frac{1}{8}$)
- 6 In the algebraic expression "3m + 2", the constant is _____.

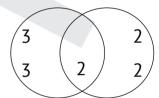
(2 or 3 or m or 3 m)

7 Two numbers whose sum is 35, and one of them is "w", then the other number is ______. ($w + 35 \odot w - 35 \odot 35 - w \odot 35 w$)

- 1 If $377 \div 29 = 13$, then $13 \times 29 = \dots$.
- 2 The temperature is 12°C below zero (______). (An integer)
- 3 Galal saved "n" pounds per day for 9 days, then he got 20 pounds from his father, then the algebraic expression is ______.
- 4 Twice the sum of ''g'' and 6 = _____.

1 The price of 35 cans is 525 LE. Find the price of 27 cans.

- 2 Complete using the following Venn diagram:
- and _____ and ____.
- **(b)** The prime common factors are: ______.



- © The **GCF** = _____.
- ① The **LCM** = _____.
- Are the two numbers relatively prime? _____. (Yes or No)
- 3 Find:

a
$$3\frac{1}{4} + 5\frac{3}{16} = \dots$$

b
$$10\frac{3}{8} - 3\frac{5}{12} = \dots$$

4 If Wafaa uses $1\frac{3}{4}$ cup of butter to make a cake and $\frac{1}{5}$ cup will remain. How much butter does she have before cooking?

Guide Answers

Oct. Models Exams

Model 1

First

- **1** 34
- 3 2 X (8 + 3) 4 $\frac{3}{2}$
- 6 (m + 18) ÷ 3
- 7 0

Second

- **1** 35
- 2 2 X 2 X 2 X 3
- 3 (3 X 7) + (3 X 8)
- 4 3a + 5

5 3

Third

- **1 a** 24
- **b** 11
- 2 Total mass of banana = 302 + 130 = 432 kg Mass of banana in each box = $432 \div 12 = 36 \text{ kg}$
- 3 a =
- 6 <
- **C** <

d >

Model 2

First

- 1 6
- 2 1
- 3 (6 X 7) + (6 X 5)
- 4 0

- **5** 5
- $\frac{6}{4}$
- 7 35

Second

- **1** 3
- 2 5 + 6
- 3 Integers, Rational numbers
- 4 0.03

Third

- 1 Number of groups (GCF) = 7 groups
 - Number of doctors in each group = $35 \div 7 = 5$ doctors
 - Number of nurses are in each group = $42 \div 7$
 - = 6 nurses
- 2 a $7\frac{5}{6} + 1\frac{1}{12} = 7\frac{10}{12} + 1\frac{1}{12} = 8\frac{11}{12}$
 - **b** $8\frac{6}{7} 2\frac{1}{5} = 8\frac{30}{35} 2\frac{7}{35} = 6\frac{23}{35}$
- 3 a =

Model 3

5 2

First

- $1 4\frac{2}{7}$
- 2 138
- 3 less than
- 4 2
- 6 40
- $\frac{7}{4}$ 4 $\frac{1}{4}$ Second
 - 1 11
- $\frac{2}{35}$ 8 $\frac{12}{35}$ **4** 7.04
- **3** 5.9
- Third
 - 1 a 45 = 3 X 3 X 5
 - \bigcirc 32 = 2 X 2 X 2 X 2 X 2 X 2
 - \bigcirc 60 = 2 X 2 X 3 X 5
 - 2 a $4\frac{1}{4} + 2\frac{7}{12} = 4\frac{3}{12} + 2\frac{7}{12} = 6\frac{10}{12} = 6\frac{5}{6}$
 - **b** $7\frac{4}{7} 1\frac{1}{2} = 7\frac{8}{14} 1\frac{7}{14} = 6\frac{1}{14}$
 - $\frac{3}{4}$, $-\frac{5}{8}$, $-\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$

Model 4

First

- **1** 0.2
- **2** 1
- 3 2 x 2 x 2 x 3 4 rational 5 3
- 6 3a, 2a $\frac{7}{3}$ (a 7)

Second

- **1** 63
- 2 8 X (9 + 2) = (8 X 9) + (8 X 2)
- $\frac{1}{14}$
- 4 1, 0, 1, 2

Third

- 1 The two boxes contain= $2\frac{3}{5} + 4\frac{1}{9}$ $=2\frac{24}{40}+4\frac{5}{40}=6\frac{29}{40}$ kg
- 2 a >
- **G** >

- **(**) >
- 3 a 14,9 b none
- **G** 1

- **d** 126
- e yes

First

- 1 -1
- **2** 5
- |3| x + 5

- 4 15 b **7** −15
- 5 their product 6 even

- $\boxed{3}$ even number $\boxed{4}$ x 5
- 5 x,+

- 6 25 h
- 7 prime

Model

2 1

Second

- 1 The number = 57 X 34 + 12 = 1,950
- $39 \times (4 + 6) = (9 \times 4) + (9 \times 6)$

Third

1 The number of plastic container (GCF) = 12 The number of apples in each container $= 24 \div 12 = 2$ apples

The number of bananas in each container $= 36 \div 12 = 3 \text{ bananas}$

- 2 a $9\frac{2}{7} + 5\frac{1}{9} = 9\frac{6}{9} + 5\frac{1}{9} = 14\frac{7}{9}$
- **(b)** $80 \frac{2}{5} 25 \frac{3}{4} = 80 \frac{8}{20} 25 \frac{15}{20} = 54 \frac{13}{20}$ **(3)** Shaima paid = $9 \frac{1}{2} + 5 \frac{1}{4} + 4 = 9 \frac{2}{4} + 5 \frac{1}{4} + 5 \frac{1}{4}$ $4 = 18 \frac{3}{4}$ pounds
- $\frac{4}{5}$ 5.5, -1, 2, 2 $\frac{1}{7}$, 3.7, 3 $\frac{4}{5}$, 7

Model 6

First

- 1 natural number
- 2 5,3

- **3** −2
- 4 0
- 5 4 s

- 6 2 (x + 7)
- 7 30

Second

- 1,131
- 2 their product
- 3 9
- $\frac{4}{2} \frac{5}{2}$

Third

- 1 Ahmed took from both = 65 $\frac{1}{5}$ + 34 $\frac{1}{5}$ $=65\frac{1}{5}+34\frac{1}{5}=99\frac{2}{5}$ pounds
- 2 17, -9, 2, 1 31, 1121
- The greatest number packs of CDs (GCF) = 2 CDs
- 4 a 12= 2 X 2 X 3
- 9= 3 X 3

- **G** GCF = 3
- d LCM = 2 X 2 X 3 X 3 = 36

Second

First

1 18

- $\frac{2}{2}$ 4 $\frac{2}{21}$ $1 7 \times (5 + 8) = (7 \times 5) + (7 \times 8)$
- [3] -2,-1,0,1 [4] 1

Third

- 1 The number of hours = 6 n + 3
- 2 The number rows (GCF) = 9 rows
- 3 a $3\frac{3}{10} + 8\frac{1}{4} = 3\frac{6}{20} + 8\frac{5}{20} = 11\frac{11}{20}$
 - **b** $15\frac{2}{3} 8\frac{5}{6} = 15\frac{4}{6} 8\frac{5}{6} = 6\frac{5}{6}$
- 4 4.8, 2.7, I 1.5 I, I 6.7 I, 7.3

Model 8

First

- **1** 1
- 2 4
- 3 8
- 4 >

5 3

- 6 b + 1
- 7x 3

Second

- 1 1
- 2 8 X (9 + 2) = (8 X 9) + (8 X 2)
- $\frac{3}{16}$
- $\frac{4}{5}$ 5 $\frac{4}{5}$

Third

- 1 The number of rooms in each floor $= 372 \div 12 = 31 \text{ rooms}.$
- The greatest number of backs DVDs (GCF) = 8 backs
- 3 a 14 = 2 X 7
 - \bigcirc 21 = 7 X 3
 - **G** GCF = 7
 - d LCM = 2 X 7 X 3 = 42
- 4 300 9 p

First

- 1 prime number
- 2 0

- 4 6
- 5 greater than 6 3
- **7** 3y 2

Second

- 1 9
- $\frac{2}{3}$ 1 $\frac{2}{3}$
- 3 10
- 4 h ÷ 6

Third

- 1 Area of the garden = 124 X 65 = 8,060 square meters The number of basins = $8,060 \div 62$ = 130 basins.
- 2 a <
- **(b)** <
- **C** >
- 3 First and second stages = $6\frac{2}{5} + 4\frac{1}{2} = 10\frac{9}{10}$ km. The third stage = $15 - 10 \frac{9}{10} = 4 \frac{1}{10}$ km.
- $\boxed{4} \frac{1}{2}, -\frac{1}{4}, -\frac{1}{8}, 10.251, 0.75$

Model 10

First

- 1 97
- 2 4
- **3** 42
- 4 8

- 6 2
- 7 35 w

Second

- **1** 377
- 2 12
- 3 9 n + 20
- 4 2 x (q + 6)

Third

- 1 The price of one can = $525 \div 35 = 15$ LE The price of 27 cans = $27 \times 15 = 405 LE$.
- **2 a** 18,8 **b** 2

5 0

- **d** 72 **e** no
- 3 a $3\frac{1}{4} + 5\frac{3}{16} = 3\frac{4}{16} + 5\frac{3}{16} = 8\frac{7}{16}$
 - **b** $10\frac{3}{8} 3\frac{5}{12} = 10\frac{9}{24} 3\frac{10}{24} = 6\frac{23}{24}$
- 4 The butter she has before cooking
 - $=1\frac{3}{4}+\frac{1}{5}=1\frac{15}{20}+\frac{4}{20}=1\frac{19}{20}$ cup.



Time: 45 minutes

Q1:Choose the correct answer:

- The common factor of all numbers is
 - a. 0

b. 1

c. 2

d. 3

- 2) The G.C.F of any two prime numbers is
 - a. 0

b. 1

c. 2

d. 3

The common multiple of all factors is

a. 0

b. 1

c. 2

- d. 3
- 4) The following expression represents the greatest number of bags can be made from apples and bananas respectively: (12 × 6) + (12 × 4) , then the number of all bags is
 - a. 12

h 4

c. 6

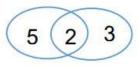
d. 120

- 5) If $29 \div 3 = 9 R2$, then the divisor is
 - a. 29

b. 3

c. 9

- d. 2
- 6) Which is the correct relation represents the following statement: (distribute 16 crayons equally among 4 students)
 - **a.** 16×4
- **b.** 16 ÷ 4
- c. 16 + 4
- d. 16 4
- 7) The following Venn diagram represents the prime factorization of two numbers which are
 - a. 3 and 5
- b. 2 and 3
- c. 2 and 5
- d. 6 and 10

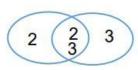


- 8) The following expression represents the greatest number of bags can be made from mangos and bananas respectively, then the number of all bags is
 - a. 4

b. 9

c. 6

d. 36



Q2: Complete the following

1) $1\frac{3}{5} + \frac{1}{3} = \dots$

2) $\frac{5}{8} + \frac{3}{10000} = 1$

 The prime number has only factor(s). The LCM of two relatively prime numbers is If 13 x 35 = 455, then 455 ÷ 13 = A number whose prime factors are 3, 3 and 2 is The only even prime number is
Q3:Answerthefollowing:
1) Karim 48 pencils and 18 crayons. What is the numerical expression of the greatest number of sets that can be made so that all sets include the same number of items?
2) Ali bought a bottle of juice contains $1\frac{3}{4}$ liters of orange juice. He drank $\frac{2}{5}$ liter of juice. How much of juice is left in the bottle?
3) Ahmed has 1,378 oranges and need to pack them up equally in 25 boxes. How many oranges in each box?
4) a) The two numbers represented in venn digram are: and
b) The GCF for the two numbers is
c) The LCM for the two numbers is 2 3 3
d) Are the two numbers relatively prime numbers?
(Yes or No)
AHMED NASSR Good luck
Mr. Ahmed Nassr 0100 37 80 857



Grade 6 Unit (1)

Time: 45 minutes

Q1:Choose the correct answer:

- The common factor of all numbers is
 - a. 0

b. 1

c. 2

d. 3

- 2) The G.C.F of any two prime numbers is
 - a. 0

b. 1

c. 2

d. 3

The common multiple of all factors is

a. 0

b. 1

c. 2

- d. 3
- 4) The following expression represents the greatest number of bags can be made from apples and bananas respectively: (12 × 6) + (12 × 4) , then the number of all bags is
 - a. 12

h 4

c. 6

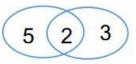
d. 120

- 5) If $29 \div 3 = 9$ R2, then the divisor is
 - a. 29

b. 3

c. 9

- d. 2
- 6) Which is the correct relation represents the following statement: (distribute 16 crayons equally among 4 students)
 - a. 16×4
- b. 16 ÷ 4
- c. 16 + 4
- d. 16 4
- 7) The following Venn diagram represents the prime factorization of two numbers which are
 - a. 3 and 5
- b. 2 and 3
- c. 2 and 5
- d. 6 and 10

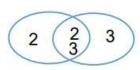


- 8) The following expression represents the greatest number of bags can be made from mangos and bananas respectively, then the number of all bags is
 - a. 4

b. 9

c. 6

d. 36



Q2: Complete the following

1) $1\frac{3}{5} + \frac{1}{3} = \dots$

2) $\frac{5}{8} + \frac{3}{1000} = 1$

 3) The prime number has only factor(4) The LCM of two relatively prime numbers i 5) If 13 x 35 = 455, then 455 ÷ 13 = 6) A number whose prime factors are 3, 3 and 7) The only even prime number is 	S
Q3:Answer the following:	
1) Karim 48 pencils and 18 crayons. What is the name the greatest number of sets that can be made a same number of items?	
2) Ali bought a bottle of juice contains $1\frac{3}{4}$ liters of liter of juice. How much of juice is left in the	5
3) Ahmed has 1,378 oranges and need to pack to boxes. How many oranges in each box?	them up equally in 25
4) a) The two numbers represented in venn digram are: and	
b) The GCF for the two numbers is	
c) The LCM for the two numbers is d) Are the two numbers relatively prime numbers? (Yes or No)	2 3 2 3 Good luck
Mr. Ahmed Nassr	0100 37 80 857

30

Name:



Grade 6 Unit (2)

Time: 45 minutes

Q1:Choose the correct answer:

1) The number $-2\frac{1}{4}$ in the form $\frac{a}{b}$ is ____

A. $-\frac{4}{9}$ B. $-\frac{9}{4}$ C. $-\frac{7}{4}$

D. $-\frac{21}{4}$

2) |-11|>____

A. 10

B. 11

C. 13

D. 101

_unit(s) 3) The distance between – 4 and its opposite on the number line is

A. zero

B. 4

C. 8

D. 16

4) Wael deposit of 1,000 L.E. in a bank represents as —

A. 1,000

B. -1,000

C. 100

 D_{-100}

5) Which of the following is nearest to zero?

A. -4

B. 4

C. -3

D. 2

6) The smallest natural number is ___

A. -2

 B_{-1}

C. 0

D. 1

7) The opposite of the number –8 is _____

A. -8

B. 8

C. 0

D. -7

8) The greatest negative integer is _____

A. -1

 $B_{1} - 2$

C. - 3

D. -4

Q2: Complete the following

- The smallest non-negative integer is -
- 2) The number of integers between -2 and 3 is
- The opposite of zero is ______
- 4) The integer numbers consists of negative numbers and numbers.
- 5) The number of integers between 2 and 2 is

- 7) The integer which just next to 4 is
- 8) The number is neither positive nor negative.
- 9) Set of integers of set of counting numbers.

Q3:Answerthe following:

1) Find two rational numbers lying between :

a.
$$\frac{2}{3}$$
 and $\frac{5}{6}$

b.
$$\frac{2}{3}$$
 and $\frac{3}{4}$

c.
$$-3.7$$
 and -3.8

2) Arrange the following from greatest to least.

$$3, -\frac{7}{2}, \frac{5}{2}, 3\frac{1}{4}, 0, -11$$

3). Find the value of x

b.
$$|x| = 12$$

c.
$$|x| = 0$$

d.
$$|-4| = x$$

f.
$$|-101| = x$$

Write each statement, filling in each blank with the inequality symbol, < or > , that correctly completes the statement.



Good luck